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Petent Claims What is claimed is:

3. The method as claimed in one of the preceding patent claims claim 1, ehuracterized in that wherein a network node (NK11, NK12, NK13, NK14), on upon receiving a delay-time measurement message, simulates the alignment of itea time thereof with the reference time at least once, and then sends a response to the master.

nodes (NK11, NK12, NK13, NK14)in the master.

4. The method as claimed in one of the preceding patent claims claim I, characterized in that wherein the time on a network node (NK11, NK12, NK13, NK14) is aligned with the reference time for the subnetwork immediately after reception of the time setting message.

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- 5. The method as claimed in one of the preceding patent claimsclaim 1, eheraeterized in that wherein the time on a network node (NK11, NK12, NK13, NK-14) is aligned with the reference time for the subnetwork on by way of a step-bystep basis.
- 6. The method as claimed in one of the preceding patent claimsclaim 1, characterized in that wherein at least part of it is at least one step is repeated a plurality of times if appropriate.
- 7. The method as claimed in putent-claim 6, characterized in that the master ascertains the signal delay time by sending a plurality of delay-time measurement messages and using formation of a mean.
- 8. The method as claimed in one of the proceding patent claimsclaim 1, churacterized in that wherein the network node (NK1) which undertakes the function of the master in a subnetwork (NM2, NK11, NK11, NK12, NK13, NK14) ascertains all the network nodes (NKI, NKII, NKI2, NKI3, NKI4) which are part of the subnetwork.
- The method as claimed in one of the preceding patent oleimsclaim 1, 9. characterized in that wherein at least one network node (NKII) in a subnetwork (NM2; NK1, NK11; NK12, NK13, NK14) undertakes the function of the master in another subnetwork (NM3, NK11, NK111, NK112).
- The method as claimed in one of the preceding patent claimsclaim 1, 10. characterized in that wherein the network nodes (NKI, NKII, NKI2, NKI3, NKI4) in a subnetwork are connected to one another by means way of an optical transmission medium-(NM2).
- The method as claimed in claim 2, wherein a network node, upon receiving a delay-time measurement message, simulates the alignment of a time thereof with the reference time at least once, and then sends a response to the master.

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- 12. The method as claimed in claim 2, wherein the time on a network node is aligned with the reference time for the subnetwork immediately after reception of the time setting message.
- The method as claimed in claim 3, wherein the time on a network node is aligned with the reference time for the subnetwork immediately after reception of the time setting message.
- The method as claimed in claim 2, wherein the time on a network node is aligned with the reference time for the subnetwork by way of a step-by-step basis.
- 15. The method as claimed in claim 3, wherein the time on a network node is aligned with the reference time for the subnetwork by way of a step-by-step basis.
- The method as claimed in claim 4, wherein the time on a network node is aligned with the reference time for the subnetwork by way of a step-by-step basis.
- The method as claimed in claim 2, wherein the master ascertains all the <u>17</u>. network nodes which are part of the subnetwork.
- The method as claimed in claim 3, wherein the master ascertains all the network nodes which are part of the subnetwork.
- 19. The method as claimed in claim 4, wherein the master ascertains all the network nodes which are put of the subnetwork.
- 20. The method as claimed in claim 5, wherein the master ascertains all the network nodes which are part of the subnetwork.
- 21. The method as claimed in claim 2, wherein at least one network node in a subnetwork undertakes the function of the muster in another subnetwork.

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22.	The method a	s claimed in	claim 3,	wherein a	t least one	network	node
in a subnetwo	rk undertakes t	he function	of the ma	ister in and	ther subne	twork.	

- The method as claimed in claim 4, wherein at least one network node in a subnetwork undertakes the function of the master in another subnetwork.
- 24. The method as claimed in claim 5, wherein at least one network node in a subnetwork undertakes the function of the master in another subnetwork.
- 25. The method as claimed in claim 8, wherein at least one network node in a subnetwork undertakes the function of the master in another subnetwork.

26. A method, comprising:
insuring no unauthorized communication takes place in a subnetwork;
sending a delay-time measurement message to every network node in the
subnetwork in order to ascertain a signal delay time;
sending a time setting message to every network node; and
aligning the time on the network nodes with the reference time for the
subnetwork.